ABSTRACT OF THE DISCLOSURE

An improved high frequency filter of coaxial construction comprises one or more resonators—(R) having the following features:—an electrically conductive internal conductor configured as an internal conductive tube—(1); and an electrically conductive external conductor—(2)_; an—An_electrically conductive base—(3)—which electrically interconnects the internal conductor and the external conductor—(2)_; a—A_cover—(5) eevering—covers—the high frequency filter with respect to the base—(3); and having—an inner side—(5a) and outer side_ (5b), the—The inner side—(5a) pointing—points—toward a free end—(1a) of the internal conductive tube—(1)_; wherein a A_dielectric layer—(6) having a dielectric constant E_r greater than 2 is arranged between the outer side—(5a) of the cover—(5) and the free end—(1a) of the internal conductive tube—(1)_; and the The_radial extent of the dielectric layer—(6) substantially eevering—covers_the cross section of the internal conductive tube—(1) at the free end—(1a) thereof.